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MAXIMUM OF o *Ceti* (Mira), 1896–97.

By Miss Rose O'Halloran.

In the following observations a record of minute gradations of lustre has not been attempted, but merely a careful outline of the distinct changes, relatively to the comparison stars used during the intervals of clear weather.

Sept. 25, midnight. Not more than one magnitude brighter than companion, 110″ distant; in the moonlight alike in tint.
26, 1:30 A.M. Ditto; seen near meridian.
Oct. 11. More than one magnitude brighter than companion.
20. Ditto; noticeably reddish.
27. Ditto.
28. Visible in opera glass of mean power.
Nov. 11. Equal to 71 *Ceti*, about 2° to the east.
13. Ditto.
24. Visible to the naked eye; equal to 70 *Ceti;* a few degrees to the north.
25. Ditto.
28 and 29. Brighter than 66 *Ceti*, 1½° to the northwest.
Dec. 2. About as bright as ξ *Piscium.*
5. Brighter than ξ *Piscium.*
6. Ditto.
7. About one magnitude less than δ *Ceti.*
8. Somewhat brighter than before.
19. Equal to δ *Ceti.*
21. Brighter than δ.
24. Ditto; not as bright as γ *Ceti.*
30 and 31. Equal to δ.
Jan. 1 and 2. Ditto.
5, 6, 7, 8. Less than δ.
9. Brighter than δ; perhaps owing to moonlight.
14. About equal to δ.

Jan. 15. Fainter than δ, even in the moonlight.
17. Fainter than δ.
22, 23, 25. Ditto.
Feb. 1. Ditto.
7. About half a magnitude fainter than δ.
21. Equal to ξ *Piscium.*
22. Ditto.
23. Not so bright as ξ *Piscium.*
24. Ditto; brighter than 70 *Ceti.*
25, 26, 27. Ditto.
Mar. 1, 2, 4, 5, 8, 9, 10. Ditto.
11 and 12. Doubtful.
18. Fainter than 70 *Ceti.*
20. Ditto. In opera glass about equal to 66 *Ceti.*

No satisfactory comparisons could be made after this date, though the variable was observed until March 25th.

San Francisco.